

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO : 6,808,894 B1

Page 1 of 2

DATED : October 26, 2004 9/707468

INVENTOR(S): Nicholas C. Nicolaides; Luigi Grasso; Philip M. Sass

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

*on Title Page*

Title Page.

Item (56), References Cited, U.S. PATENT DOCUMENTS, please insert the following reference:

-- 5,885,827 3/1999 Wabl et al. 435/320.1 --.

OTHER PUBLICATIONS, please insert the following references:

-- Allen, D., et al., "MutS mediates heteroduplex loop formation by a translocation mechanism," EMBO J., 1997, 16(14), 4467-4476.

Baker, S.M., et al., "Male mice defective in the DNA mismatch repair gene PMS2 exhibit abnormal chromosome synapsis in meiosis," Cell, 1995, 82, 309-319.

Bell, C.J. et al., "Assignment of 30 microsatellite loci to the linkage map of arabidopsis," Genomics, 1994, 19, 137-144.

Bignami M., "Unmasking a Killer: DNA O<sup>6</sup>-methylguanine and the Cytotoxicity of Methylating Agents", Mutat. Res., 2000, 462, 71-82.

Bjornson, K., et al., "Modulation of MutS ATP hydrolysis by DNA cofactors," Biochemistry, 2000, 39, 3176-3183.

Bronner, C.E., et al., "Mutation in the DNA mismatch repair gene homologue hMLH1 is associated with hereditary non-polyposis colon cancer," Nature, 1994, 368, 258-261.

de Wind, N., et al., "Inactivation of the mouse Msh2 gene results in mismatch repair deficiency, methylation tolerance, hyperrecombination, and predisposition to cancer," Cell, 1995, 82, 321-330.

Drummond, J.T., et al., "Isolation of an hMSH2-p160 heterodimer that restores DNA mismatch repair to tumor cells," Science, 1995, 268, 1909-1912.

Drummond, J.T. et al., "Cisplatin and adriamycin resistance are associated with mutla and mismatch repair deficiency in an ovarian tumor cell line," J. Biological Chemistry, 1996, 271(33), 19645-19648. --

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-- Edelman, W., et al., "Meiotic pachytene arrest in MLH1-deficient mice," Cell, 1996, 85, 1125-1134.

Emery, S.C. and Harris, W.J., "Strategies for Humanizing Antibodies" In C.A.K. Borrebaeck (Ed.) ANTIBODY ENGINEERING. Oxford University Press, N.Y. 1995; pp. 159-183.

Eshleman, J.R., et al., "Mismatch repair defects in human carcinogenesis," Human Molecular Genetics, 1996, 5, 1489-1494.

Rulicke et al., Special review series-gene manipulation and integrative physiology, pp. 589-600, 1996.

Bishop Chromosomal insertion of foreign DNA, pp. 607-619, 1996.

Polejaeva et al., New advances in somatic cell nuclear transfer application in transgenesis, pp. 117-126, 2000.

Anderson, Human gene therapy, pp. 25-30, 1998. --.

Item (56), References Cited, OTHER PUBLICATIONS:

"Yu, Y. et al.," reference, please delete "induccs" and insert -- induces -- therefor.

"Hoang J., et al.," reference, please delete "Lnes"," and insert -- Lines", -- therefor.

"Khazaeli, M.B. et al.," reference, please delete "Huamn" and insert -- "Human" -- therefor.

"Nicolaides, N.C., "A naturally occurring hPMS2 mutation..." reference, please delete "nutator" and insert -- mutator -- therefor.

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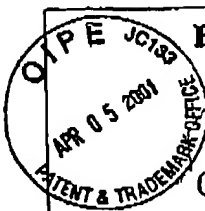
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## Form PTO-1449 Modified

List of Patent and Publications  
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Docket No.  
MOR-0003

Serial No.  
09/707,468

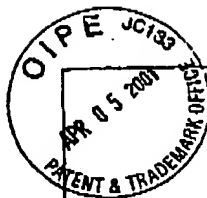
Applicant  
Nicholas C. Nicolaides, et al.

Filing Date  
November 7, 2000

Group  
1644

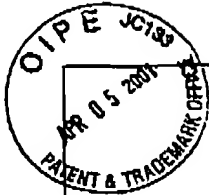
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>m</i>	AA	Allen, D., et al., "MutS mediates heteroduplex loop formation by a translocation mechanism," <i>EMBO J.</i> , 1997, 16(14), 4467-4476
	AB	Baker, S.M., et al., "Male mice defective in the DNA mismatch repair gene PMS2 exhibit abnormal chromosome synapsis in meiosis," <i>Cell</i> , 1995, 82, 309-319
	AC	Bell, C.J., et al., "Assignment of 30 microsatellite loci to the linkage map of <i>arabidopsis</i> ," <i>Enomics</i> , 1994, 19, 137-144
	AD	Bignami M., "Unmasking a Killer: DNA O <sup>6</sup> -methylguanine and the Cytotoxicity of Methylating Agents", <i>Mutat. Res.</i> , 2000, 462, 71-82.
	AE	Bjornson, K., et al., "Modulation of MutS ATP hydrolysis by DNA cofactors," <i>Biochemistry</i> , 2000, 39, 3176-3183
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	AG	de Wind, N., et al., "Inactivation of the mouse Msh2 gene results in mismatch repair deficiency, methylation tolerance, hyperrecombination, and predisposition to cancer," <i>Cell</i> , 1995, 82, 321-330
	AH	Drummond, J.T., et al., "Isolation of an hMSH2-p160 heterodimer that restores DNA mismatch repair to tumor cells," <i>Science</i> , 1995, 268, 1909-1912
	AI	Drummond, J.T., et al., "Cisplatin and adriamycin resistance are associated with mutla and mismatch repair deficiency in an ovarian tumor cell line," <i>J. Biological Chemistry</i> , 1996, 271(33), 19645-19648
	AJ	Edelmann, W., et al., "Meiotic pachytene arrest in MLH1-deficient mice," <i>Cell</i> , 1996, 85, 1125-1134
	AK	Emery, S.C. and Harris, W.J., "Strategies for Humanizing Antibodies" In C.A.K. Borrebaeck (Ed.), <i>ANTIBODY ENGINEERING</i> . Oxford University Press, N.Y. 1995; pp. 159-183.
<i>✓</i>	AL	Eshleman, J.R., et al., "Mismatch repair defects in human carcinogenesis," <i>Human Molecular Genetics</i> , 1996, 5, 1489-1494
EXAMINER <i>Dth</i>		DATE CONSIDERED <i>6/26/02</i>



<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Docket No. <b>MOR-0003</b>	Serial No. <b>09/707,468</b>
		Applicant <b>Nicholas C. Nicolaidis, et al.</b>	
		Filing Date <b>November 7, 2000</b>	Group <b>1644</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
<input checked="" type="checkbox"/>	AM	Fiedler, U. et al., "High-Level Production and Long-Term Storage of Engineered Antibodies in Transgenic Tobacco Seeds", <i>Bio/Technology</i> , 1995, 13, 1090-1093	
<input type="checkbox"/>	AN	Frigerio, L. et al., "Assembly, Secretion, and Vacuolar Delivery of a Hybrid Immunoglobulin in Plants", <i>Plant Physiol</i> , 2000, 123, 1483-1494	
<input type="checkbox"/>	AO	Galio, L., et al., "ATP hydrolysis-dependent formation of a dynamic ternary nucleoprotein complex with MutS and MutL," <i>Nucleic Acids Research</i> , 1999, 27(11), 2325-2331	
<input type="checkbox"/>	AP	Glaser, V., "Gene Therapy's Other Investment Window", <i>Nat. Biotechnol.</i> , 1996, 14, 1216-1217	
<input type="checkbox"/>	AQ	Harfe, B.D., "DNA mismatch repair and genetic instability," <i>Annu. Rev. Genet.</i> , 2000, 34, 359-399.	
<input type="checkbox"/>	AR	Hoang J., et al., "BAT-26, an Indicator of the Replication Error Phenotype in Colorectal Cancers and Cell Lines", <i>Cancer Res.</i> , 1997, 57, 300-303	
<input type="checkbox"/>	AS	Honma, M. et al., "Cytotoxic and Mutagenic Responses to X-rays and Chemical Mutagens in Normal and p53-mutated Human Lymphoblastoid Cells", <i>Mut. Res.</i> , 1997, 374, 89-98	
<input type="checkbox"/>	AT	Jiricny, J., et al., "Mismatch repair defects in cancer," <i>Curr. Opin. Genet. Dev.</i> , 2000, 10, 157-161	
<input type="checkbox"/>	AU	Karran, P., et al., "Genomic instability and tolerance to alkylating agents," <i>Cancer Surveys</i> , 1996, 28, 69-71	
<input type="checkbox"/>	AV	Khazaeli, M.B. et al., "Human Immune Response to Monoclonal Antibodies", <i>J. Immunother.</i> , 1994, 15, 42-52	
<input checked="" type="checkbox"/>	AW	Kong, Q., et al., "PMS2-deficiency diminishes hypermutation of a lamdal transgene in young but not older mice", <i>Mol. Immunol.</i> , 1999, 36, 83-91	
<input checked="" type="checkbox"/>	AX	Leach, F.S., et al., "Mutations of a mutS homolog in hereditary nonpolyposis colorectal cancer," <i>Cell</i> , 1993, 75, 1215-1225	
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Sheet 3 of 6

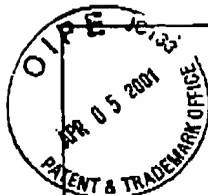
<b>Form PTO-1449 Modified</b>		<b>Docket No.</b> MOR-0003	<b>Serial No.</b> 09/707,468
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Applicant Nicholas C. Nicolaides, et al.	
		<b>Filing Date</b> November 7, 2000	<b>Group</b> 1644
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
AY	Liu, T., et al., "Microsatellite instability as a predictor of a mutation in a DNA mismatch repair gene in familial colorectal cancer," <i>Genes, Chromosomes &amp; Cancer</i> , 2000, 27, 17-25		
AZ	McCallum, C.M., "Targeted screening for induced mutations," <i>Nature Biotechnology</i> , 2000, 18, 455-457		
BA	Modrich, P., "Mismatch repair, genetic stability, and cancer," <i>Science</i> , 1994, 266, 1959-1960		
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BC	Nicolaides, N.C., et al., "The jun family members, c-jun and junD, transactivate the human c-myb, promoter via an Ap1-like element," <i>J. Biological Chemistry</i> , 1992, 267(27), 19655-19672		
BD	Nicolaides, N.C., et al., "Genomic organization of the human PMS2 gene family," <i>Genomics</i> , 1995, 30, 195-206		
BE	Nicolaides, N.C., et al., "Positive autoregulation of c-myb, expression via Myb binding sites in the 5' flanking region of the human c-myb gene," <i>Molecular and Cellular Biology</i> , 1991, 11(12), 6166-6176		
BF	Nicolaides, N.C., "A naturally occurring hPMS2 mutation can confer a dominant negative mutator phenotype," <i>Mol. Cell. Biol.</i> , 1998, 18(3), 1635-1641		
BG	Nicolaides, N.C., et al., "Analysis of the 5' region of PMS2 reveals heterogeneous transcripts and a novel overlapping gene," <i>Genomics</i> , 1995, 29, 329-334		
BH	Nicolaides, N.C., et al., "Mutations of two PMS homologues in hereditary nonpolyposis colon cancer," <i>Nature</i> , 1994, 371, 75-80		
BI	Palombo, F., et al., "Mismatch repair and cancer," <i>Nature</i> , 1994, 367, 417		
BJ	Papadopoulos, N., et al., "Mutation of a mutL homolog in hereditary colon cancer," <i>Science</i> , 1994, 263, 1625-1629		
BK	Papadopoulos, N., et al., "Mutations of GTBP in genetically unstable cells," <i>Science</i> , 1995, 268, 1915-1917		
<b>EXAMINER</b> <i>Del</i>		<b>DATE CONSIDERED</b> 6/26/02	



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<b>Form PTO-1449 Modified</b>		<b>Docket No.</b> MOR-0003	<b>Serial No.</b> 09/707,468
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Applicant Nicholas C. Nicolaides, et al.	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
<input checked="" type="checkbox"/>	BL	Parsons, R., et al., "hypermutability and mismatch repair deficiency in RER+ tumor cells," <i>Cell</i> , 1993, 75, 1227-1236	
<input checked="" type="checkbox"/>	BM	Peinado, M.A., et al., "Isolation and characterization of allelic losses and gains in colorectal tumors by arbitrarily primed polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> , 1992, 89, 10065-10069	
<input checked="" type="checkbox"/>	BN	Perucho, M., et al., "Cancer of the microsatellite mutator phenotype," <i>Biol. Chem.</i> , 1996, 377, 675-684	
<input checked="" type="checkbox"/>	BO	Prolla, T.A., et al., "MLH1, PMS1, and MSH2 interactions during the initiation of DNA mismatch repair in yeast," <i>Science</i> , 1994, 265, 1091-1093	
<input checked="" type="checkbox"/>	BP	Reff, M.E., "High-level production of recombinant immunoglobulins in mammalian cells," <i>Curr. Opin. Biotechnol.</i> , 1993, 4, 573-576	
<input checked="" type="checkbox"/>	BQ	Saez-Llorens, X.E. et al., "Safety and pharmacokinetics of an intramuscular humanized monoclonal antibody to respiratory syncytial virus in premature infants and infants with bronchopulmonary dysplasia," <i>Pediat. Infect. Dis. J.</i> , 1998, 17(9), 787-791	
<input checked="" type="checkbox"/>	BR	Schrader, C.E. et al., "Reduced Isotype Switching in Splenic B Cells from Mice Deficient in Mismatch Repair Enzymes," <i>Journal of Experimental Medicine</i> , 1999, 190(3), 323-330	
<input checked="" type="checkbox"/>	BS	Shield, C.F. et al., "A Cost-Effectiveness Analysis of OKT3 Induction Therapy in Cadaveric Kidney Transplantation," <i>Am. J. Kidney Dis.</i> , 1996, 27, 855-864	
<input checked="" type="checkbox"/>	BT	Shields, R.L. et al., "Anti-IgE Monoclonal Antibodies that Inhibit Allergen-Specific Histamine Release," <i>Int. Arch. Allergy Immunol.</i> , 1995, 107, 412-413	
<input checked="" type="checkbox"/>	BU	Spampinato, C., et al., "The MutL ATPase is required for mismatch repair," <i>J. Biological Chemistry</i> , 2000, 275(13), 9863-9869	
<input checked="" type="checkbox"/>	BV	Strand, M., et al., "Destabilization of tracts of simple repetitive DNA in yeast by mutations affecting DNA mismatch repair," <i>Nature</i> , 1993, 365, 274-276	
<input checked="" type="checkbox"/>	BW	Su, S., et al., "Mismatch specificity of methyl-directed DNA mismatch correction In Vitro," <i>J. Biological Chemistry</i> , 1988, 263(14), 6829-6835	
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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

*	<b>BX</b>	Vora, K.A. et al., "Severe Attenuation of the B Cell Immune Response in Msh2-deficient Mice", <i>Journal of Experimental Medicine</i> , February 1999, 189(3), 471-481
	<b>BY</b>	Wheeler, J.M.D., et al., "The role of hypermethylation of the <i>hMLH1</i> promoter region in HNPCC versus MSI+sporadic colorectal cancers," <i>J. Med. Genet.</i> , 2000, 588-592
*	<b>BZ</b>	Winter, D.B. et al., "Altered spectra of hypermutation in antibodies from mice deficient for the DNA mismatch repair protein PMS2", <i>Proc. Natl. Acad. Sci., USA</i> , June 1998, 95, 6953-6958
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